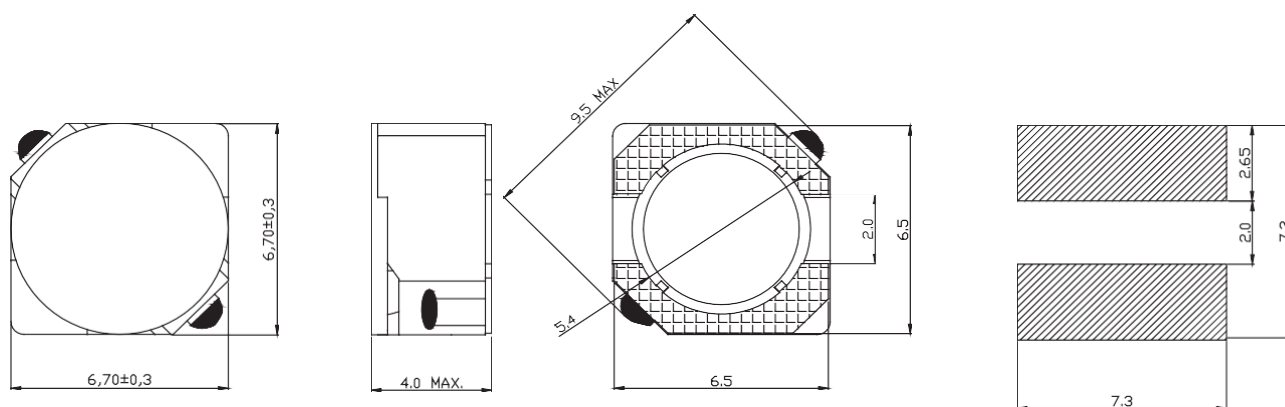


MTI-SDR0638A SERIES

SMD Power Inductor



- Ferrite core construction
- L*W*H :7.0 * 7.0*4.0 Max.
- High temperature inductor for Automotive application
- Operation temperature range : -40 degree to +125 degree
(Including coil's self temp. rise)
- RoHs compliance
- Halogen free available
- Qualified to AEC-Q200



LAND PARTTERN

UNIT:mm

Electrical Specifications at 25°C

No.	PART NUMBER	MARK	OCL(uH)	DCR (mohm)		Saturation Current (A)		Temperature Rise Current (A)
				Max.	Typ.	At 25°C	At 125°C	
1	MTI-SDR0638A-3R0-T125	3R0	3.0±30%	22.0	13.8	3.90	3.00	4.30
2	MTI-SDR0638A-3R9-T125	3R9	3.9±30%	24.5	14.5	3.30	2.50	4.20
3	MTI-SDR0638A-4R7-T125	4R7	4.7±30%	27.5	16.4	3.10	2.40	4.10
4	MTI-SDR0638A-5R6-T125	5R6	5.6±30%	30.5	20.0	2.85	2.10	3.40
5	MTI-SDR0638A-6R8-T125	6R8	6.8±30%	33.0	20.4	2.65	2.00	3.20
6	MTI-SDR0638A-100-T125	100	10±25%	43.5	26.8	2.20	1.70	3.00
7	MTI-SDR0638A-150-T125	150	15±25%	59.8	44.1	1.80	1.50	2.20
8	MTI-SDR0638A-220-T125	220	22±25%	103	68	1.50	1.00	1.65
9	MTI-SDR0638A-330-T125	330	33±25%	145	107	1.25	0.95	1.25
10	MTI-SDR0638A-470-T125	470	47±25%	181	134	1.00	0.80	1.15
11	MTI-SDR0638A-680-T125	680	68±25%	250	174	0.85	0.65	0.95
12	MTI-SDR0638A-101-T125	101	100±25%	372	274	0.68	0.55	0.75

1. OCL Measuring condition is 100KHz · 0.1Vrms.

2. Saturation current: The value of D.C current when the inductance decreases to 65% of it's normal value.

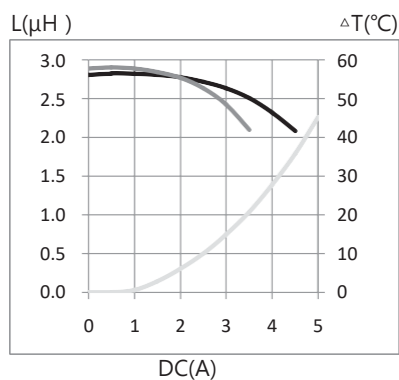
3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$)



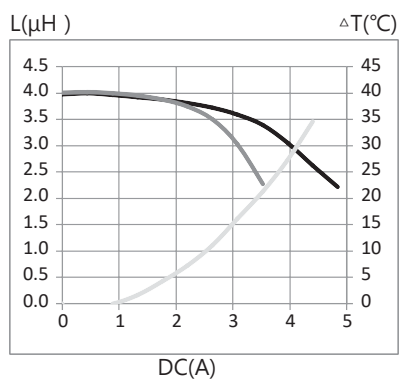
Saturated Current and Temperature Rise Graph.

L(25°C)
 L(125°C)
 ΔT

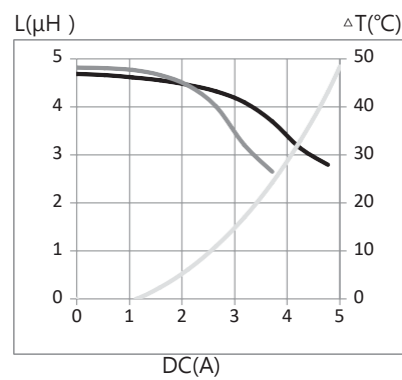
1. MTI-SDR0638A-3R0-T125



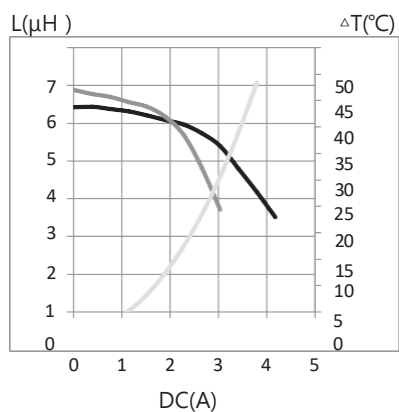
2. MTI-SDR0638A-3R9-T125



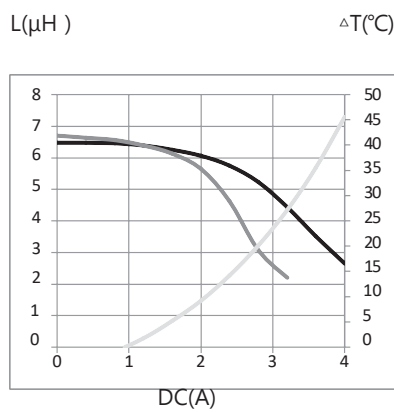
3. MTI-SDR0638A-4R7-T125



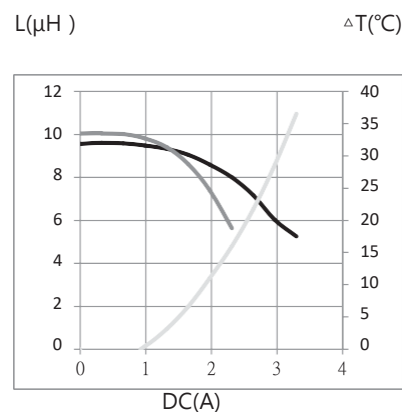
4. MTI-SDR0638A-5R6-T125



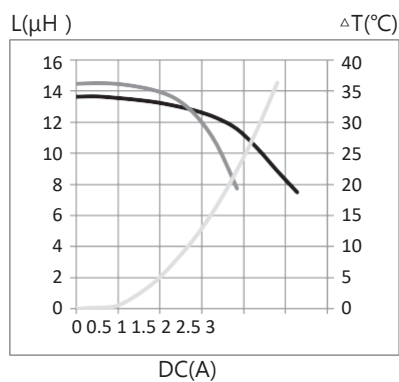
5. MTI-SDR0638A-6R8-T125



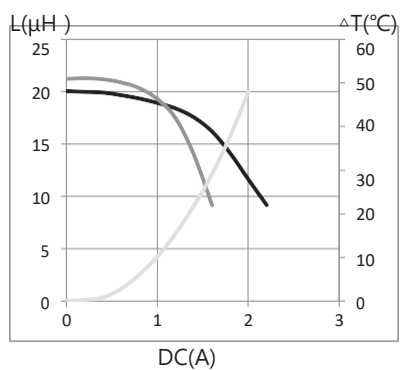
6. MTI-SDR0638A-100-T125



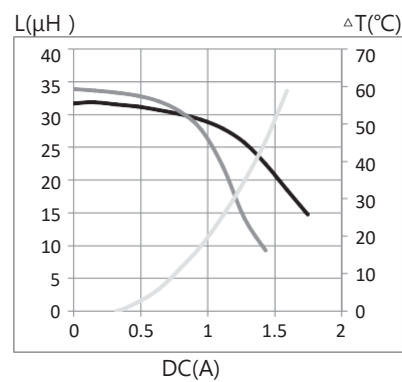
7. MTI-SDR0638A-150-T125



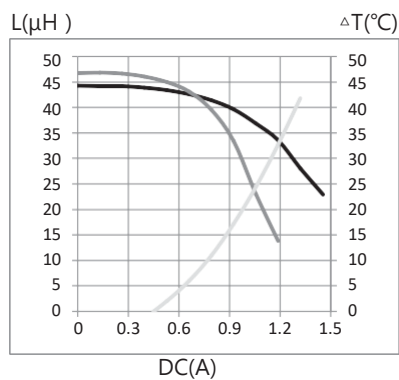
8. MTI-SDR0638A-220-T125



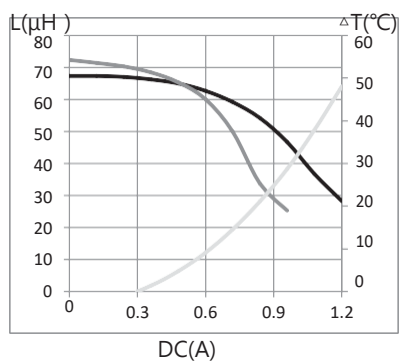
9. MTI-SDR0638A-330-T125



10. MTI-SDR0638A-470-T125



11. MTI-SDR0638A-680-T125



12. MTI-SDR0638A-101-T125

